

# Mega Pixel IP Camera

## ----User Manual



### Packing List:

- |                         |      |
|-------------------------|------|
| 1. Mega Pixel IP Camera | 1 pc |
| 2. DC12V Power Adapter  | 1 pc |
| 3. User Manual          | 1pc  |
| 4. CD                   | 1pc  |

Our corporation reserves the right to make any update to this manual without notice.

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# 1 Product Overview

## 1.1 Main Features

- ◆ User can visit the mega pixel ip camera live image and playback in IE.
- ◆ It supports max 10 users visit it at the same time.
- ◆ Local PC storage or network storage permitted, it is built-in SD slot and supports several network storage protocols.
- ◆ Max resolution 1600x1200.
- ◆ Support CDMA1X and GRPS Mobile network.
- ◆ Support local or remote arming or disarming.
- ◆ Support warning detecting and gang video recording scheme. Sending the snapped picture or alarm message by email or FTP server.
- ◆ Support video masking, can be set 4 video mask areas.
- ◆ Set motion detection to alarm for recording, it supports 4 detecting areas.
- ◆ Sending alarm message and snapshot to user by email or FTP upload.
- ◆ Support many network protocols, for example, HTTP, TCP/IP, UDP, SMTP, DDNS, DNS, SNTP, BOOTP, DHCP, FTP, RTSP, SNMP, and so on.
- ◆ Network self-adapting to match the network bandwidth for the bit rate and frame rate.
- ◆ Support DDNS, LAN and Internet (ADSL、Cable Modem).
- ◆ Provide alarm message for Video Lost, Motion Detection (sensitivity and area can be set) and Sensors.
- ◆ Support remote configuration, remote upgrade, and remote error testing and automatic recovery.

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## 1.2 Basic Specification

Image Sensor	CMOS: 1/3 inch deinterlace CMOS sensor. Min 1.5Lux
Video Compression	H.264 Main Profile
Two Streaming	Primary and Secondary streaming H.264 & MJPEG
Video Resolution	CMOS: 1600*1200, 1280*960, 1280*720.
Video Parameters	CMOS: Brightness, Chroma, Saturation, gamma, Contrast, Acutance, Red, Blue and Image quality.
Streaming Type	Pure Video Streaming or Audio and Video streaming.
Video Frame rate	CMOS: 1-30 fps, can be set under different resolution.
Video Compression bit rate	30Kbit/S~8MKbit/S
Audio Input	1 channel linear input, input impedance 1 K Ohms
Audio Compression	G.726, G.711, ADPCM
Audio Output	1 channel Linear output
Two-way talk input	Support Audio two-way talk
Local Recording	Support SD card to record the image and snapshot. SD2.0 standard.
	Support IP-San storage.
System Interface	10Base-T/100Base-TX Ethernet Port WiFi (802.11b/g) 1 RS485 USB port SD Slot
Alarm Input	1 channel on/off input, Support NO(open),or NC(closed)
Alarm Output	1 channel on/off output, 120VAC 1A/24VDC 1A
PoE	POE standard 802.3AF-class 0
Power Supply	DC 12V 1A
Power Consumption	Less than 6W
Work Temperature	-10℃ ~ 55℃
Work Humidity	10% ~ 85%
Storage Temperature	-20℃ ~ 70℃

---

## 1.3 Hardware requirement



### The lowest configuration for hardware

- ◆ CPU: Pentium 2.8 GHz
- ◆ Memory: 512 MB
- ◆ Graphic Card: TNT2
- ◆ Sound Card: Speaker, Two-way talk
- ◆ Hard Disk: Bigger than 40G



### Recommended configuration for hardware

- ◆ CPU: Dual-core 2.6GMhz
- ◆ Memory: 1GB
- ◆ Graphic Card: Nvidia Geforce FX5200 or ATI RADEON 7000(9000) series 256MB video memory



### Operation System

- ◆ 32 bit Windows2000, Windows XP, Windows2003, Windows Vista and 64 bit Windows2003、Windows XP.



### Software

- ◆ IE 6.0 or Better
- ◆ DirectX8.0 or Better
- ◆ TCP / IP protocol



### PC system other requirement

The PC graphics card is required to support conversion and zoom in & out of image color. The tested VGA are as follows: Nvidia Tnt/Tnt2, Geforce Mx200/400/420/440, Fx5200/5600 and its series; ATIR adeon7000/7200/7500/8500/9000/9200/9500/9600and its series, MatroxG450/550; INTEL845G/865G and its series. Please attend that the driving of graphics card must support hardware zoom in & out function.

## 2 Appearance and Installation

### 2.1 Backside connection of mega pixel IP Camera



Note:

The power input DC12V 50Hz 1A. Don't use other power supply to damage the mega pixel ip camera.

#### Explanations:

LAN: Ethernet Port  
RST: Reset Button (default set)  
DC12V: Power Supply, DC 12V/1A  
A out: Audio Output  
A in: Audio Input  
SD Card: SD Card slot



Step1: Connect power supply (DC 12V)

Step2: Connect LAN port with router/network switch/ hub via RJ45 cable.



## 2.2.2 Connect LAN port with PC via RJ45 cable.



The Light of LAN port turns green within 5 seconds under the normal network situation after power on.

## 3 Searching device and installing ActiveX

### 3.1 Searching device and modify network parameters

Run "SearchNVS" to find the default IP and modify mega pixel ip camera network parameters according to clients' local PC IP gateway (Such as IP address, subnet mask, gateway and so on)

How to run "SearchNVS",

- A: Find the NVSCenter software in 【Application】 file from the CD.
- B: Install the NVSCenter software, then do it as follows to find SearchNVS: 【Start】 --- 【all programs】 --- 【NVS Center】 --- 【Search NVS】 .

#### Note:

1. The factory settings of the IP Camera as follows IP: 192.168.55.160; Subnet mask: 255.255.255.0.
2. User name: admin; Password: admin
3. Run the SearchNVS software to search and modify IP Camera network parameters .It is multicast protocol. But the firewall forbids the multicast data packet. So please close the firewall first.

(1)Click 【SearchNVS】 button to run SearchNVS software as follow:

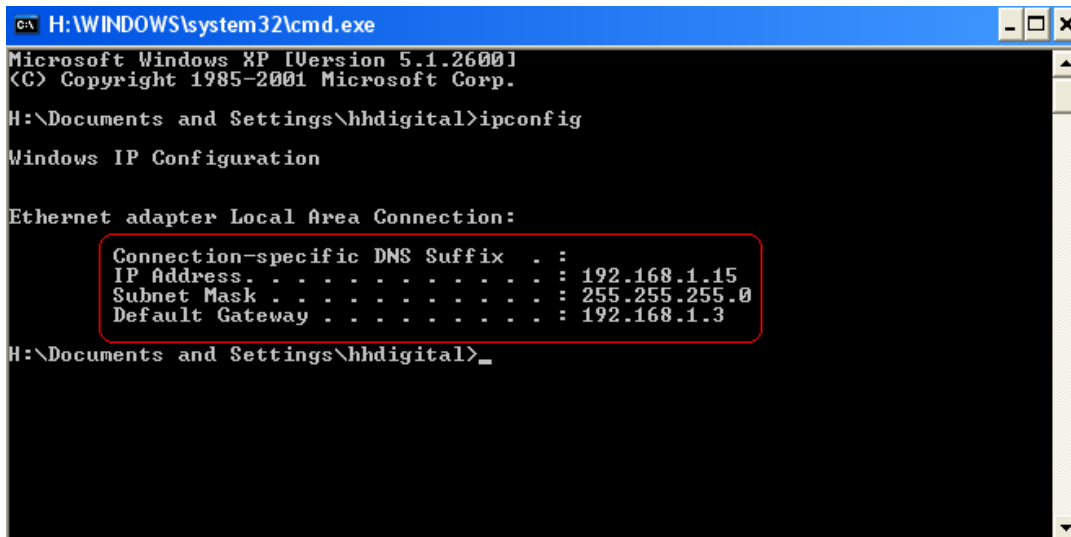
Device Name	Device Model	Channel Total	IP Address	Subnet Mask	Gateway	Data Port	Web Port	Multicast IP
DVS50671	4-Channel CIF Video Encoder	4	192.168.1.207	255.255.255.0	192.168.1.3	5000	80	224.55.8.1
DVS50752	1-Channel D1 Video Encoder	1	192.168.1.203	255.255.255.0	192.168.1.3	5000	80	224.55.8.1
DVS51089	2-Channel HalfD1 Video Encode	2	192.168.1.204	255.255.255.0	192.168.1.3	5000	80	224.55.8.1
DVS51464	1-Channel D1 Video Encoder	1	192.168.1.171	255.255.255.0	192.168.1.3	5000	80	224.55.8.1
DVS52661	1-Channel D1 Video Encoder	1	192.168.1.170	255.255.255.0	192.168.1.3	5000	80	224.55.8.1

【Local IP】 Display the local PC IP. If your PC is NIC or multi-addressed local IP, please select one IP address to connect NVS.

## (2) Set IP address for mega pixel ip camera.

Your mega pixel ip gateway must be same as your local PC's gateway. Then you can visit IP camera. So we need to set the IP address for the IP camera before using.

To get your local PC IP configuration information: click "*start*", choose "*run*", then input "*command*" or "*cmd*" (Windows 2000/XP system). click "*confirm*", then input "*ipconfig*" and press "*Enter*" button, you will get following information:



```
H:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

H:\Documents and Settings\hhdigital>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

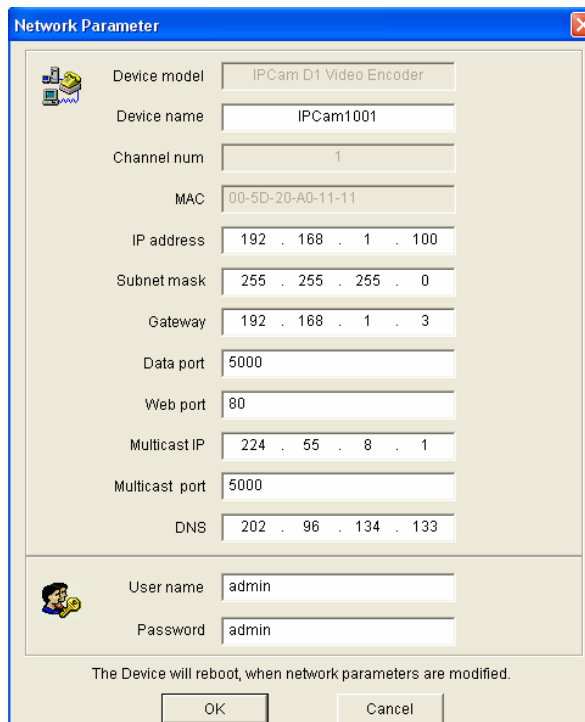
    Connection-specific DNS Suffix  . : 
    IP Address. . . . .               : 192.168.1.15
    Subnet Mask . . . . .             : 255.255.255.0
    Default Gateway . . . . .         : 192.168.1.3

H:\Documents and Settings\hhdigital>
```

Now please remember the above IP Address, Subnet Mask, Default Gateway, then set the IP address of mega pixel ip camera according to your local PC IP address. For example :192.168. 1 .100.

Please make sure the Default Gateway and Subnet Mask to be same.

Click **【Set】** to get the following windows:



Network Parameter

Device model: IPCam D1 Video Encoder

Device name: IPCam1001

Channel num: 1

MAC: 00-5D-20-A0-11-11

IP address: 192 . 168 . 1 . 100

Subnet mask: 255 . 255 . 255 . 0

Gateway: 192 . 168 . 1 . 3

Data port: 5000

Web port: 80

Multicast IP: 224 . 55 . 8 . 1

Multicast port: 5000

DNS: 202 . 96 . 134 . 133

User name: admin

Password: admin

The Device will reboot, when network parameters are modified.

OK Cancel

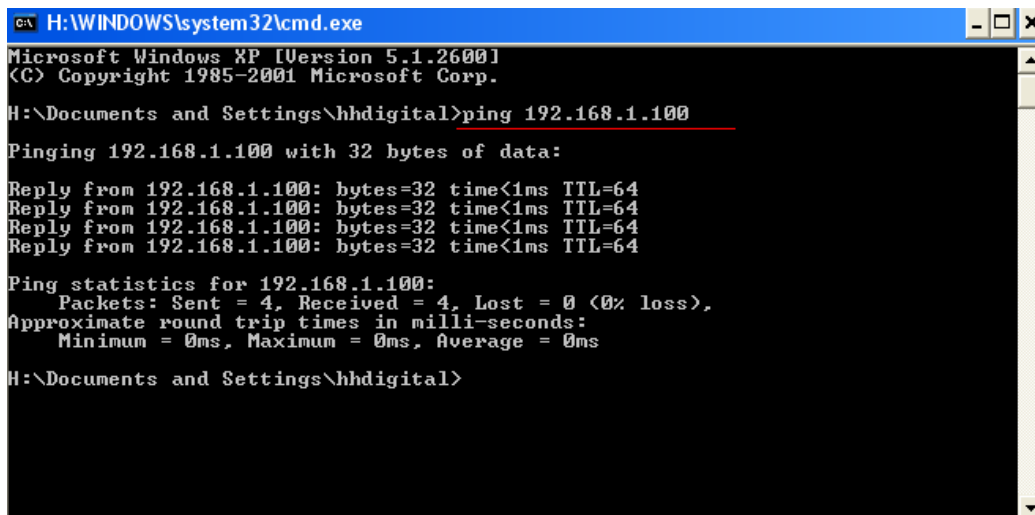
After setting, click "*OK*", then mega pixel IP camera will restart.



## 3.2 Checking connection

To check connection works well: “Start”→ “Run”→ “cmd”.

Input: “ping 192.168.1.100”, Click “Enter” button.



```

C:\H:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

H:\Documents and Settings\hhdigital>ping 192.168.1.100

Pinging 192.168.1.100 with 32 bytes of data:

Reply from 192.168.1.100: bytes=32 time<1ms TTL=64
Reply from 192.168.1.100: bytes=32 time<1ms TTL=64
Reply from 192.168.1.100: bytes=32 time<1ms TTL=64
Reply from 192.168.1.100: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.1.100:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

H:\Documents and Settings\hhdigital>
```

That means the IP Camera works normally and connects to network correctly.

[Then use SearchNVS software to search and modify network parameters (such as IP address, subnet mask, gateway and so on according to clients' local IP information)].

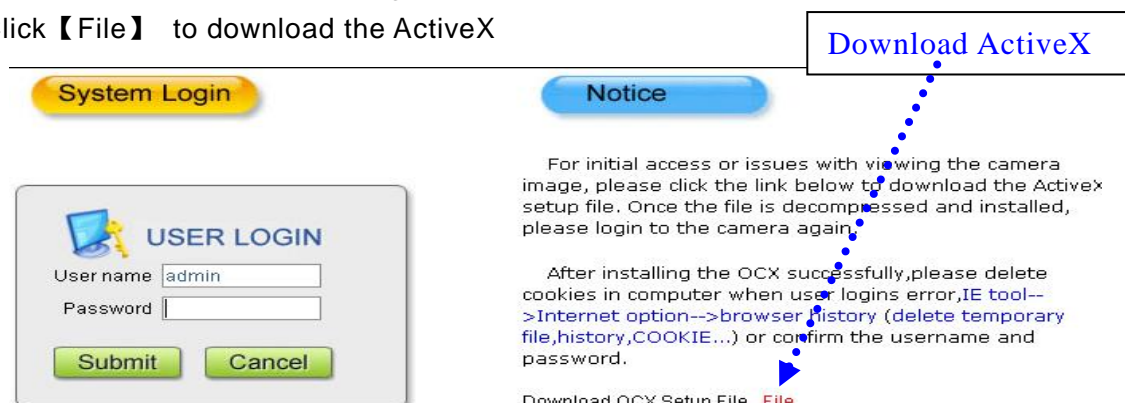
## 3.3 Installing ActiveX and login device

You need to install ActiveX when you visit mega pixel IP camera for the first time through Internet Explorer.

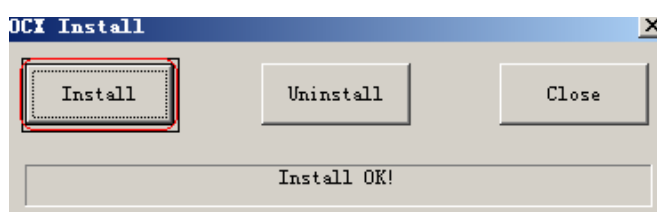
How to install ActiveX:

Download the ActiveX from Internet Explore: input the IP address of mega pixel IP camera in Internet Explore; it appears Login interface as follows:

Click **【File】** to download the ActiveX



A new dialogue box pops up, click **【Run】** or **【Save】** to download ActiveX, after download it, double-click the downloaded file “xdview.exe” to install it as follows:



Note: ActiveX have to be installed.

Close current Internet Explorer, click "Install" button, it will be installed the ActiveX and shows "Install OK! ".

Open one Internet Explorer, and input IP address of IP Camera , for example:192.168.55.160, it will show:

---

<b>System Login</b>	<b>Notice</b>	
---------------------	---------------	--

**USER LOGIN**

User name

Password

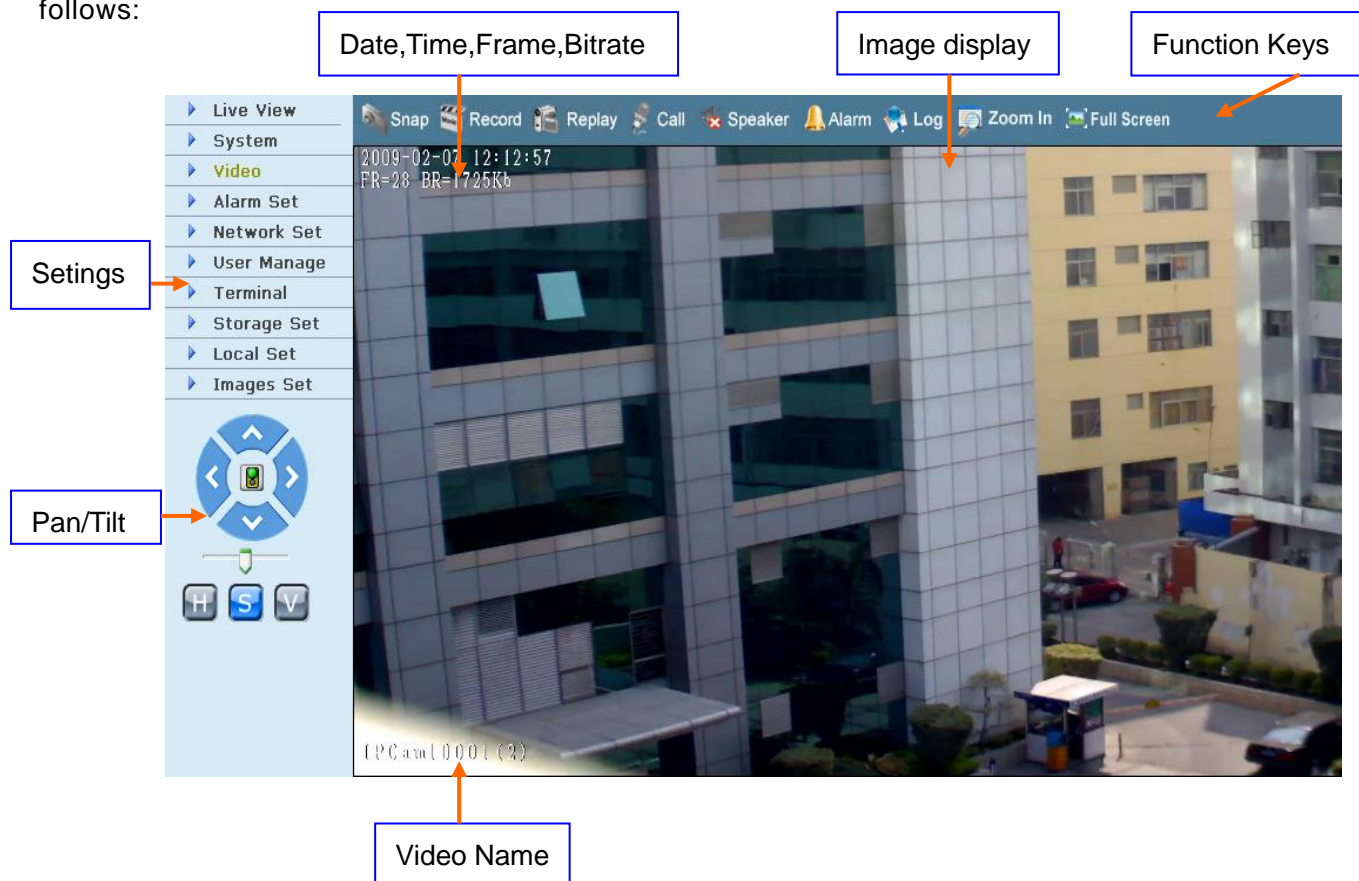
For initial access or issues with viewing the camera image, please click the link below to download the ActiveX setup file. Once the file is decompressed and installed, please login to the camera again.

After installing the OCX successfully, please delete cookies in computer when user logins error, IE tool-->Internet option-->browser history (delete temporary file, history, COOKIE...) or confirm the username and password.

Download OCX Setup File [File](#)

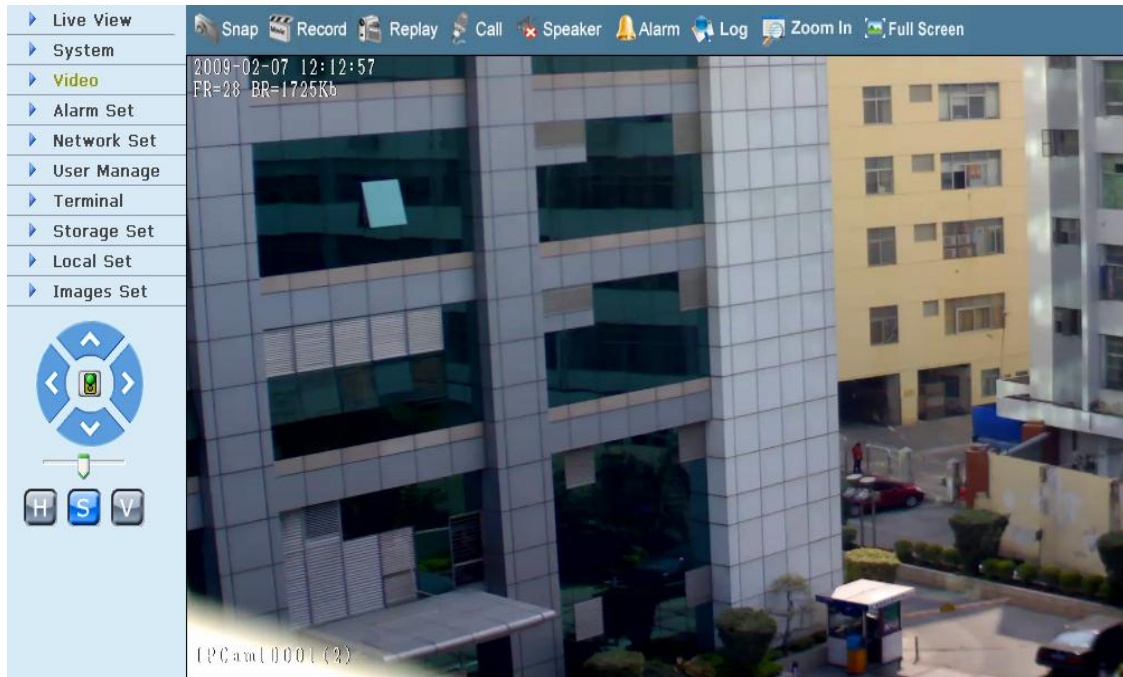
---

Input User name (Default: admin)、Password (Default: admin), click "Submit" to show as follows:




## 4. Software configuration for mega pixel IP Camera


### 4.1 Liveview




In the Liveview interface, User can do the operations as snap, record, replay, call, and speaker, cancel alarm, check log, digital zoom in, full screen, P/T control, and video parameters and image Set.

**【Speaker】** Audio Switch, The working status as :  **Speaker**

**【Snap】** click “Snap”, snap the current image ,it can be stored in your computer as JPG format.

**【Record】** Manual image recording, the current image can be stored in your computer as .MP6 format. The working status as:  **Record**

**【Replay】** click “Replay”, it will appear a new dialogue box, user can replay the image recorded or picture captured.

**【Call】** Audio Switch, If user connects Microphone and Speaker with IP camera, it can do the two -way audio function. The working status as  **Call**

**【Alarm】** When there is an alarm, double-click **【Alarm】** to cancel the alarm manually .

**【Pan control】** up, down, left, right, Automatic, level and vertical Operation

**【Log】** some alarm messages in Log as follows.(max 512 messages):

Log search			
Conditions			
Date	2009-2-6	Date	2009-2-6
		Per page	30
			Search
Date	Time	Content	Explain
2009-02-06	17:30:13	No.1 Motion Alarm	
2009-02-06	17:30:32	No.1 Motion Alarm Finish	
2009-02-06	17:30:36	No.1 Motion Alarm	
2009-02-06	17:30:50	No.1 Motion Alarm Finish	
2009-02-06	17:30:53	No.1 Sensor Alarm Finish	
2009-02-06	17:31:06	No.1 Motion Alarm	
2009-02-06	17:31:13	No.1 Motion Alarm Finish	
2009-02-06	17:31:33	No.1 Motion Alarm	
2009-02-06	17:31:47	No.1 Motion Alarm Finish	
2009-02-06	17:31:57	No.1 Motion Alarm	
2009-02-06	17:32:07	No.1 Motion Alarm Finish	
2009-02-06	17:32:23	No.1 Motion Alarm	
2009-02-06	17:32:41	No.1 Motion Alarm Finish	
2009-02-06	17:32:45	No.1 Motion Alarm	
2009-02-06	17:33:11	No.1 Motion Alarm Finish	

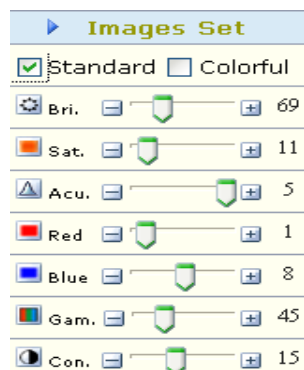
First Previous Next Last 1/1Page 15Item 30Item/Page Now:30Item GoTo: 1

**【Zoom In】** it has digital zoom in on the video as follows.




**【Full Screen】** full screen for display.

Mega pixel IP Camera: brightness, saturation, acutance, red, blue, gamma, contrast as follows:





## 4.2 Playback


Click **【Replay】** button as:  **Replay** , then it appears the following interface:

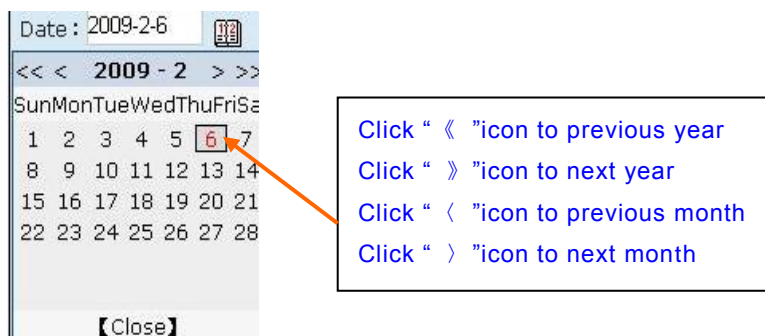


User can select the resolution when replaying.



User can search the recorded image files or snapped pictures in local PC or SD card according to date.

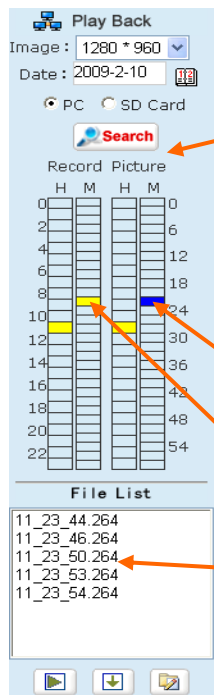
**【Date】** User can check the recorded image files or snapped pictures according to the appointed date, click the button as :  It appears:



**【PC】** check the recorded image files or snapped pictures in local PC according to the appointed date.

**【SD Card】** check the recorded image files or snapped pictures in SD Card according to the appointed date.

**【File List】** Shows the current recorded image files or snapped pictures in the File List.



There are two Lists: Record & Picture:

Record List means the recorded image in PC on Feb 10, 2009

Pic List means the snapped picture in PC on Feb 10, 2009

The left of the Record / Pic List is Hour unit (from 0 to 23)

The right of the Record / Pic List is Minute unit (from 0 to 59)

The yellow icon means the image recorded / picture snapped in the current selected time.

The blue icon means the image recorded / picture snapped in the selected time.


This blue icon means the picture snapped at 11:23 on Feb 10, 2009.

The yellow icon means the image recorded at 11:23 on Feb 10, 2009.

These files were named by the recorded time. For example: the file 11\_23\_50.264 means this image recorded at 11:23:50'.

【Play】 Select the recorded image or snapped picture in play list, then click “play” button as : 



**【Download】** Searching the recorded image file or snapped pictures which downloaded from SD card in Play list, click the “Download ”button as  to download it to local PC.

【Download information】User will get the following information when click the “Download” as

[illegible]

Click **【Pause】** to pause download by manually, click **【Start】** to continue to download the unfinished file, click **【Delete】** to del the downloaded file, click **【Close】** to close the download information interface.

## 4.3 System

### System Settings as follows:

Mega pixel IP camera system set

The screenshot shows a web interface for system settings. It has several sections: 'Time Sync' with a 'Time Sync' button; 'NTP Parameters' with 'Enable NTP' (checkbox), 'Time zone' (dropdown menu showing '(GMT+08:00) Beijing, Hongkong, Singapore, Taipei'), and 'NTP server' (text input 'clock.isc.org' with a 'Save' button); 'System Information' with 'IP Camera name' (text input 'IPCam10001') and 'ID' (text input '10001' with a 'Save' button); 'Upgrade' with 'Type' (dropdown menu showing 'Application(\*.uke)', a file selection area with 'Browse...' and 'Upgrade' buttons, and 'Version' (text input '2.0.1.7(1070003)'); and 'System Operation' with 'Restore Default' and 'Reboot' buttons.

【Time Sync】click: “Time Sync”, The system time of the device will be synchronous with computer .

【NTP Parameter】 Please input the correct NTP server address and select the correct time zone. After save it, switch to 【Real-time Image】 ,The NTP sever will show the correct system time.

【System Information】 Display device name, device number and user-defined device name.

Note: Rename the device name and save it, the device will restart.

【System Information】 display the camera name and number message, the name can be defined by user, and CCD camera can select PAL or NTSC.

【Upgrade】 User can upgrade the uke,uoc,uwe in IE.

【Restore Default】 Resume all the IP Camera parameters (Including Network parameter except MAC address) to default factory settings.

**Note:** Be careful when use this function.

【Reboot】 Click 【Reboot】 , the IP Camera will restart after 5 seconds.

Upgrade:

Check the following steps before upgrade:

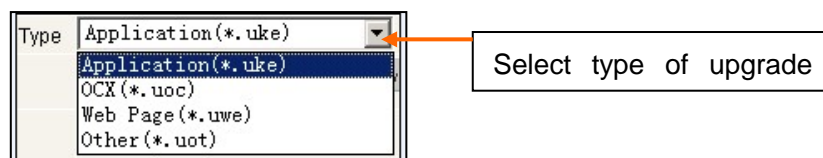
1,Check the IP camera version, User can upgrade the version in IE, and user has to upgrade three files, the sequence of the upgrade as follows:

Step1: Application (uke)

Step2: OCX (uoc)

Step3: Web Page (uwe)

2, Check the type of upgrade file as follows:



Note:

- (1) please upgrade IP camera according to the order, first upgrade the version (uke), Then OCX file and Web Page file
- (2) Don't interrupt the power and internet during the upgrading IP camera.
- (3) Please check the new version is the right one.

## 4.4 Video

- (1) Mega pixel IP camera Video set

The screenshot shows the 'Video' configuration window for 'IPCam10001'. It includes settings for OSD (On-Screen Display) such as Title, Date, Time, Week, and Frame/Bitrate. The Video Coding section allows setting Preferred and Alternate streams for H.264, including Image resolution (1280\*960), Quality (Fine), and Advanced options like I frame interval (50 F), Frame rate (25 F/S), Rate control (CBR/VBR), Bitrate (2048 Kbps), and Quality (3). Environment Power Frequency is set to 50Hz. Mirror/Flip and Lens Control options are also present. The Mask area set section shows a video preview and an 'Enable Mask' checkbox. Snap picture parameter settings include Picture format (jpg) and Resolution (1280\*960). Audio settings are set to OFF and Mic. A Save button is located at the bottom right.

【Title】 rename the video name, displaying on the lower left corner.

【OSD】 display channel name, date, time, week and frame / bit rate.

【Position Adjustment】 move the OSD position on video.

【Video Coding】 set the preferred stream and alternate stream.

【Coding】 support H.264 and MJPEG (MJPEG for mobile surveillance) .

【Image】 set image resolution.

CMOS: support resolution (1600\*120), (1280\*960) and 1280\*720.

【Quality】 Options for Fine, Normal, Basic

“Fine”, default

Quality	Fine
Advanced	<input checked="" type="checkbox"/>
I frame interval	50 F
Frame rate	25.0 F/S
Rate control	VBR
Bitrate	2000 Kbps
* Quality	2

“Normal” default

Quality	Normal
Advanced	<input checked="" type="checkbox"/>
I frame interval	50 F
Frame rate	25.0 F/S
Rate control	VBR
Bitrate	1000 Kbps
* Quality	3

“Basic” default

Quality	Basic
Advanced	<input checked="" type="checkbox"/>
I frame interval	50 F
Frame rate	25.0 F/S
Rate control	VBR
Bitrate	512 Kbps
* Quality	4



【Advanced】 select this option to set other parameters.

【I frame interval】 When the network bandwidth is not good, it is good way to increase the I frame interval to make the image fluently. The range of I frame interval is 0~200. The smaller I frame interval, better image quality. Normally, I frame interval is twice as frame rate.

【Quality】 When the network bandwidth is not good, it is better to increase the number of “Quality”. The smaller “Quality”, better image quality. Normally, Quality is 3-4.

【Frame rate】 frame/second,

CMOS: when the resolution is 1600\*1200, the frame range: 0~15,

when the resolution is 1280\*960, the frame range: 0~25

when the resolution is 1280\*720, the frame range: 0~30

To set the frame range according to the bandwidth situation, when the network bandwidth is not good, it is good way to reduce the frame range to make the image fluently.

【Rate Control】 Select VBR or CBR( VBR means Variable Bit Rate, it is used for low bandwidth situation; CBR means Constants Bit Rate, it is used for big bandwidth.

【Bitrate】 please set the bitrate according to your network bandwidth. Better image quality for higher bitrate settings, but it needs more bandwidth

【LAN】 Default:

Advanced	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
I frame interval	<input type="text" value="100"/> F	<input type="text" value="100"/> F
Frame rate	<input type="text" value="25"/> F/S	<input type="text" value="25"/> F/S
Rate control	<input type="text" value="CBR"/>	<input type="text" value="CBR"/>
Bitrate	<input type="text" value="2048"/> Kbps	<input type="text" value="2048"/> Kbps
* Quality	<input type="text" value="2"/>	<input type="text" value="4"/>
	<input type="text" value="LAN..."/>	<input type="text" value="WAN..."/>

【WAN】 Default:

Advanced	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
I frame interval	<input type="text" value="25"/> F	<input type="text" value="25"/> F
Frame rate	<input type="text" value="5"/> F/S	<input type="text" value="5"/> F/S
Rate control	<input type="text" value="VBR"/>	<input type="text" value="VBR"/>
Bitrate	<input type="text" value="384"/> Kbps	<input type="text" value="384"/> Kbps
* Quality	<input type="text" value="2"/>	<input type="text" value="4"/>
	<input type="text" value="LAN..."/>	<input type="text" value="WAN..."/>

Note:

This options is for professional user to set

【Enable Mask】 Mask area set can be set all image or part image, the maximum 4 areas can be set.

【Snap picture parameter settings】 set the picture format and resolution.

【All】 mask the whole image.

【Clr】 clear the mask

【Audio】 Set audio ON/OFF (Default: OFF) ,there are two models: Microphone and Line input. If users don't need audio status; please close audio input to save the DSP resource and network resource.

【Power Frequency】 Environment power frequency of the device, if it is not correct, the image will flicker.

---

【Video Mirror】 Image enantiomorphism switch

【Video Flip】 Image reversal switch

After setting, click the 【save】 button.

## 4.5 Motion alarm

Motion alarm set:

Motion

Motion Detect

☐ Enable detect Sensitivity 4

Schedule set

Time1

☒ 0 : 0 - 23 : 59


Time2

☐ 0 : 0 - 23 : 59

Area set

All

Clr



Alarm output

Alarm Output

☐

Alarm output duration 10 S

E-mail

☐

Snap

☒

1

5 S

☐ E-mail

☒ Ftp

Record

☐

60 S

☐ E-mail

☐ Ftp

\* The value is 1 - 5,more sensitive when higher.

\* Snap time for a float number, such as: 0.5 seconds, 1.5 seconds, and so on.

\* When there is storage device (harddisk,SD card,U disk) connected with IPCAM,it is the default storage for alarm recording.

Save

Motion alarm set: included schedule time, switch of the alarm, sensitivity, alarm output, alarm record or alarm snap sending by FTP.And snap sending by email. (Default storage SD card without selecting email or FTP)

【Schedule Set】 set the two schedule times for motion alarm detection.

【Alarm output】 alarm signal output.

【Alarm output duration】 set the time from 0~86400 seconds.

【Email】 send alarm message by email.

【Snap】 set alarm snapped picture sending by email or FTP. If there are continuous alarms, the interval time of capturing is the duration time.1 snapped picture per 1 second.

【Record】 set alarm record sending by FTP

【Area set】 Press the left button of mouse and drag to the detected area. Four areas can be set.

【All】 Set whole area as detected area

【Clr】 Clear all detected area.

After setting, click the 【save】 button.

## 4.6 Sensor alarm

### Sensor alarm set:

Sensor

Sensor Detect

☐ Enable detect
 Sensor type NC \*

Schedule

Time 1

☐ 0 : 0 - 23 : 59

Time 2

☐ 0 : 0 - 23 : 59

Alarm output

☒ Alarm Output
 ☐ Alarm output duration 10 S

☒ E-mail
 ☐

		Snap	Snap spacing / Record time	File save mode
<input checked="" type="checkbox"/> Snap	<input type="checkbox"/>	<span>1</span>	* <span>1</span> S	<input type="checkbox"/> E-mail <input type="checkbox"/> Ftp
<input checked="" type="checkbox"/> Record	<input type="checkbox"/>		<span>120</span> S	<input type="checkbox"/> E-mail <input type="checkbox"/> Ftp

\* Snap time for a float number, such as: 0.5 seconds, 1.5 seconds, and so on

Save

Sensors alarm set: included schedule time, switch of the alarm, sensitivity, alarm output, alarm record or alarm snap sending by FTP.And snap sending by email. (Default storage SD card without selecting email or FTP)

【Schedule Set】 set the two schedule times for motion alarm detection.

【Alarm output】 alarm signal output

【Alarm output duration】 set the time from 0~86400 seconds.

【Email】 send alarm message by email.

【Snap】 set alarm snapped picture sending by email or FTP. If there are continuous alarms, the interval time of capturing is the duration time.1 snapped picture per 1 second.

【Record】 set alarm record sending by FTP.

After setting, click the 【save】 button.

## 4.7 Network fault alarm

### Network fault alarm:

➡ Network fault alarm

Network fault alarm detect					
<input type="checkbox"/> Enable detect					
Alarm output					
<input checked="" type="checkbox"/> Alarm output	<input type="checkbox"/>	Alarm output duration <input type="text" value="10"/> s			
<input checked="" type="checkbox"/> E-mail	<input type="checkbox"/>				
		Snap	Snap spacing / Record time	File save mode	
<input checked="" type="checkbox"/> Snap	<input type="checkbox"/>	<input type="text" value="1"/>	* <input type="text" value="1"/> s	<input type="checkbox"/> E-mail	<input type="checkbox"/> Ftp
<input checked="" type="checkbox"/> Record	<input type="checkbox"/>		<input type="text" value="60"/> s	<input type="checkbox"/> E-mail	<input type="checkbox"/> Ftp

\* Snap time for a float number, such as: 0.5 seconds, 1.5 seconds, and so on

Save

Network fault alarm set: included schedule detecting time, switch of the alarm, sensitivity, alarm output duration, alarm record or alarm snap sending by FTP.And snap sending by email. (Default storage SD card without selecting email or FTP)

【Enable detect】 detect network fault.

【Alarm output】 alarm signal output

【Alarm output duration】 set the time from 0~86400 seconds.

【Email】 send alarm message by email.

【Snap】 set alarm snapped picture sending by email or FTP. If there are continuous alarms, the interval time of snapping is the duration time.1 snapped picture per 1 second.

【Record】 recording 1 minute.

**Note:** Email and FTP can't work when network fault happens. When the network works, the snapped picture or recorded file will be sent by email and FTP again.

After setting, click the 【save】 button.

## 4.8 Network

### Network Set:

Network	
<b>Basic Parameters</b>	
Enable DHCP	<input type="checkbox"/>
IP address	192.168.66.65
Subnet mask	255.255.255.0
GateWay	192.168.66.2
MAC	00-5d-20-a0-35-12 <input type="checkbox"/>
Data port No.	5000
HTTP port No.	80
Preferred DNS	202.96.134.133
Alternate DNS	202.106.0.20
<b>WiFi Parameters</b>	
Enable WiFi	<input checked="" type="checkbox"/>
IP address	192.168.1.160
Subnet mask	255.255.255.0
GateWay	192.168.1.1
SSID	T_LINK
Password	••••••
type of encryption	WEP
Auxiliary encryption	Open System
Frequency band	Auto
Mode	Auto
<b>DDNS Parameters</b>	
Enable DDNS	<input checked="" type="checkbox"/> <a href="#">Link to mvddns.net</a>
DDNS provider	mvddns.net
DDNS regName	siting
DDNS password	••••••
DDNS domain	siting.mvddns.net
DDNS server URL	www.mvddns.net
DDNS server Port	30000
Data port map No.	5000
HTTP port map No.	80
Domain E.C.: test1.mvddns.net	
<b>PPPOE Parameters</b>	
Enable PPPOE	<input type="checkbox"/>
PPPOE URL	
PPPOE username	
PPPOE password	
Online time	0minutes

Save

Set IP address, Subnet mask, Gateway, MAC, Data port, HTTP port, DNS address. The device will restart after setting the basic parameters and saving. If it is in LAN, the IP address can't be same as LAN computers' IP.

#### Wifi Setting.

It is suitable for wireless network environment. For examples, a wireless router, TP-Link WR340G 54M, firstly login the wireless router to check some WIFI information. Then set the mega pixel ip camera WIFI: SSID and password.

【Enable WIFI】 Open the WIFI function

【IP address】 Logging on wireless network (wireless router /AP), for example: 192.168.1.2

【Gateway】 Wireless network gateway (wireless router/AP), for example: 192.168.1.1

【SSID number】 It is the user name of certificate for wireless network. User can login on wireless network after checking the validation. This SSID number must be same as the SSID number of the wireless network (wireless router/AP). Save the parameters after setting. Then Pull out the cable, visit IP camera through wireless IP, for example 192.168.1.2.

#### Note:

- 1) The Gateway of wireless network can't be same as the Gateway of wired network.
- 2) When ip camera does not have the WiFi function, the WiFi setting disable

#### DDNS Setting

Setting Dynamic Domain Name Server to bind a fixed Domain Name, the server will find the

device by the Domain Name no matter what the IP address changed.

【DDNS User Name】 User registered in DDNS server

【DDNS Password】 User Password in DDNS server.

【DDNS Domain Name】 The Domain Name set for long-distance controlling after user login in DDNS server.

【DDNS Address】 When the DDNS address is the domain Name, please set the DNS address correctly.

**Note:**

The default DNS address is Guangdong China DNS address. If users are in other regions to use DDNS function, please set the correct DNS address for the device same as the user local DNS address.

【DDNS Port】 Default :30000.

【Data Port Forwarding】 When the device mapped to TCP/IP through network server, fill in the TCP/IP data port forwarding number.

【WEB Port Forwarding No】 When the device mapped to TCP/IP through network server, fill in the TCP/IP WEB port forwarding number.

**PPPOE:**

Dial-up setting, open PPPOE to set PPPOE User name, Password (get it from network supplier), It can login on WAN

After setting, click 【Save】 button

## 4.9 Advanced

### Advanced set:

Advanced		
Mail Parameters		
SMTP server	smtp.163.com	
MAIL from	ting.22.lulu@163.com	
MAIL to	sihaiting@126.com	
SMTP username	sihaiting	
SMTP password	••••••••	
MAIL title	Alarm Message	
SMTP port	25	
SSL	<input type="checkbox"/>	
FTP Parameters		
	Preferred server	Alternate server
FTP URL	119.123.51.96	119.123.79.65
FTP port	21	21
FTP catalog	si	si
User name	user	user
Password	••••	••••
UPNP Parameters		
Enable UPNP	<input type="checkbox"/>	
UPNP network card	Lineate	
UPNP mode	Designate	
UPNP server		
Data port map No.	5000	
HTTP port map No.	80	
Data mapping status	0	
HTTP mapping status	0	

Save

### Mail Setting

When there is a motion alarm, the device will send the alarm mail to the designated email box automatically

【SMTP Server】 Email server address, different emails has their different Email server address , for example:163 mail, the SMTP server is smtp.163.com。

【Mail From】 sending alarm mail from this email box.

【Mail To】 receiving alarm mail from this email box.

【SMTP User Name】 User Name for sending mail box.

【SMTP Password】 Password for sending mail box

---

【Mail Title】 Title for the alarm mail.

【Motion Alarm】Select this option, mail function success. When there is a motion alarm, the device will send the alarm mail to the designated email box automatically.

【Sensor alarm】 Select this option, mail function success. When there is a sensor alarm, the device will send the alarm mail to the designated email box automatically.

【Snap picture】 When there is a motion alarm or a sensor alarm, the device will snap the picture and storage it on the local PC.

### FTP Setting

The Snap picture can be transferred to the FTP server which is assigned.

【Schedule Send】 start schedule send, User can set the interval time.

【Schedule Send Time】 Send schedule time.

【FTP URL】 FTP server IP address or HTTP.

【FTP Port】 FTP server port, default port is 21.

【FTP Username and Password】 FTP server Username and Password

### UPNP Setting

Port forwarding automatically: when there is server with UPNP function in LAN, open this function and the server will map the set port to TCP/IP automatically.

【UPNP Network Card】 The model of network card in UPNP server.

【UPNP mode】 There are designate and automate modes:

The designate mode is that the data port forwarding No and web port forwarding No were designated to Server.

The automate mode is that the server sets the data port forwarding No and web port forwarding No.

【UPNP server】 Gateway address of network server with UPNP function.

After setting, click the 【save】 button.

## 4.10 User management

User management set:

The screenshot shows a web interface titled "User Management". It contains a form with the following fields:

User Management	
Select user	Administrator
User name	admin
Password	admin
Confirm password	
<input type="button" value="Save"/>	

You can set three users for one IP Camera. One user is Administrator and others are Guest. Administrator can set parameters for the IP Camera. However, Guest cannot set parameters.

**Note:**

User name can be composed of letters, numbers, underline or dot between 1 and 16 characters. Pay attention to the capitals and small letters.

Default Administrator Name: admin	password: admin
Default Guest Name: user1 \user 2	password: user1 \user 2
Note: Pay attention to match capitals and small letters to User name and password	

## 4.11 Terminal

### Terminal set:

COM Set

COM RS485

Baudrate 9600

Data bits 8

Stop bits 1

Check type None

Flow ctrl None

Embedded PTZ Protocol

PTZ address 1

Embedded protocol

Save

Pan/Tilt Decoder connect with RS485 port. When there is control device to connect with IP Camera, RS485 parameters need to be set according to the settings of the control device (Address, Protocol, Bit rate), and download the corresponding protocol.

click the **【 save 】** button after setting.

## 4.12 Storage set

### 4.12.1 There is Device Config, Record set and Snap set in Storage set.

The device set as follows:

Storage device Info			
ChooseNO.	TotalSize(M)	FreeSize(M)	State
<input checked="" type="radio"/> 1 SD	947	43	formatted



Check the SD information: Total size, free size and format SD card.

【Code stream】set the code stream when recording, it can be selected preferred stream or alternate stream; the packet time for recorded file is the time of image recording.

【other parameters】when there is no space for recording, the files recorded one hour ago will delete automatically. If the recorded file is not enough one hour, the device will stop recording and snapping.

Auto search the storage device when start, this is test the storage device, recommend unchecked

4.12.2 Record schedule:

Record schedule

Time 1	Time 2
<input checked="" type="checkbox"/> 0 : 0 --- 23 : 59	<input type="checkbox"/> 0 : 0 --- 23 : 59

File save mode

☐ E-mail☒ Ftp

Save

Set s  
sent to FTP server. Otherwise, it will be stored in SD card. (Note: when users select FTP sending, it needs SD card in the device. Otherwise, it is only three images in the flash. And the new ones will overwrite the old ones)

4.12.3 Snap schedule:

Snap schedule

Snap parameter

Snap spacing\* 10.0 s

Snap schedule

Time 1	Time 2
<input checked="" type="checkbox"/> 0 : 0 --- 23 : 59	<input type="checkbox"/> 0 : 0 --- 23 : 59

File save mode

☐ E-mail☐ Ftp

Set schedule time for snapping: When it starts the sending by email or FTP, the time interval should be more than 0.3 second. If users don't select the FTP and email, and the device without SD, it will stop the snapping schedule.

Note: the picture resolution can be set in "Video set".

## 4.13 Local set

### Local set:

Local Set

PC live view parameter settings

Code stream Preferred Stream

Preview mode Fluency

PC Storage parameter

Record file packet time 10 M

Record file path C:\XDNVS\ (Non-essential cases. Please keep the default path [C:\XDNVS])

Save

【Code stream】select Preferred Stream or Alternate Stream as liveview.

【Preview mode】select real-time or Fluency.

【Record file packet time】The packet time can be set as 1,5,10,15,20,25,30,60minutes.

【Record/Snap save to】The local storage for record and snap, the default is C: \XDNVS.

## Appendix 1 Network Interface for IP Camera

### Network port of IP Camera:

TCP	80(Web port)	5000(Communication port, Audio/Video data transmitting Port, Talk data transmitting Port)
UDP	5000	Audio/Video data transmitting Port
Multiple port	Multiple original port + Channel Number	

## Appendix 2 Network Parameters Default

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## Network parameters default

Wired network parameters default:

IP Address:	192.168.55.160	Data port:	5000
Subnet Mask:	255.255.255.0	Web port:	80
Gateway:	192.168.55.1	DHCP	: OFF

Wireless network parameter default:

IP Address:	192.168.1.160	Frequency:	Auto
Subnet Mask:	255.255.255.0		
Gateway:	192.168.1.1	Mode:	Auto

## Appendix 3 Visits IP Camera under different network environment

You can use your laptop or PC to connect the IP camera through LAN or Internet, the following will show you how to use IP Camera under the different network environment.

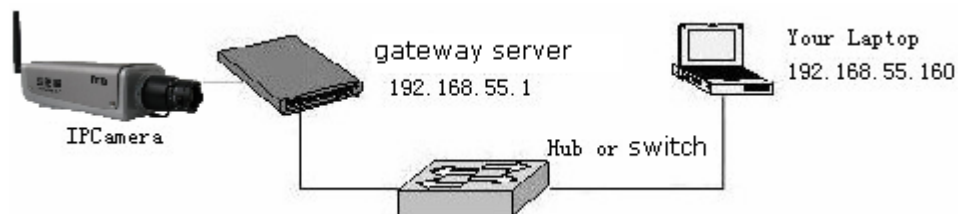
### 1、LAN

There are two ways to connect the IP camera in the LAN: Static local IP and dynamic local IP

#### ➤ Static local IP

Static local IP: refer to your network administrator assigned local IP address.

The linking drawing as the following:



The network setting please checks the following:

Normal

Basic Parameters

Enable DHCP	<input type="checkbox"/>
IP address	192.168.55.160
Subnet mask	255.255.255.0
GateWay	192.168.55.1
MAC	00-4a-20-a1-89-3b
Data port No.	5000
HTTP port No.	80
DNS address	202.96.134.133

WiFi Parameters

Enable WiFi	<input checked="" type="checkbox"/>
IP address	192.168.1.160
Subnet mask	255.255.255.0
GateWay	192.168.1.1
SSID	TP-LINK
Password	
Frequency band	Auto
Mode	Auto

If you have an IP camera with WiFi, you have to set the IP address, the subnet mask and gateway address in "WiFi parameters" according to your wireless router.

### Setting Step:

One: Login IP camera via the IE browser.

Two: Fills local IP address which the network administrator assigns, for example:192.168.55.160;

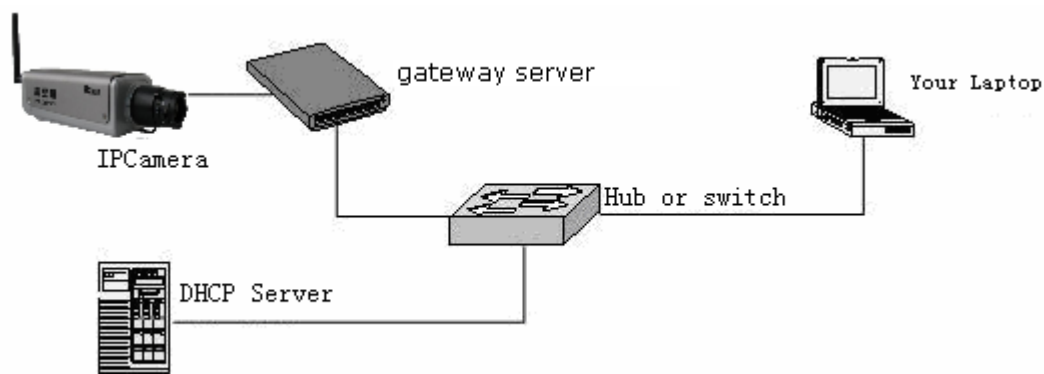
Three: Fills subnet mask, for example: 255.255.255.0;

Four: Fills gateway address, for example: 192.168.55.1;

Finished the parameter, clicks 【 Save 】 to restart IP camera.

### ➤ Dynamic local IP

Dynamic IP refers to the IP camera to obtain the IP address in the identical local area network through the DHCP server. The linking drawing as the following:



The network setting please check the following:

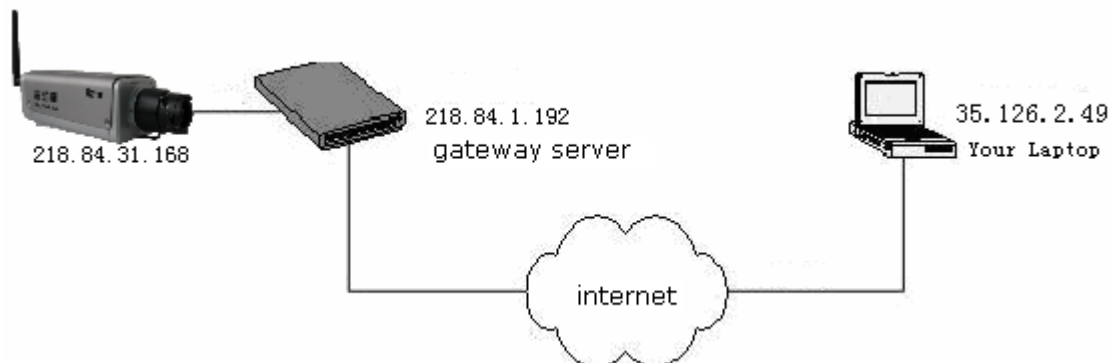
Normal	
Basic Parameters	
Enable DHCP	<input checked="" type="checkbox"/>
IP address	192.168.55.160
Subnet mask	255.255.255.0
GateWay	192.168.55.1
MAC	<input checked="" type="checkbox"/> 00-4a-20-a1-00-3b
Data port No.	5000
HTTP port No.	80
DNS address	202.96.134.133

Users login IP camera via the IE browser, set [network] and [DHCP] parameters, after settings clicks [Save] to restart IP camera then the settings become effective.

## 2、Internet

You can connect the IP camera with Internet through three ways: Fixed IP mode, ADSL and router sharing accesses the internet mode, ADSL and IP camera's PPPoE accesses the internet mode. After IP cameras connect with the Internet, user can visit the camera on WAN via dynamic domain name or the IP address (static IP with port forwarding form) directly.

### ➤ Fixed IP Mode



**The network setting please check the following:**

Normal	
Basic Parameters	
Enable DHCP	<input checked="" type="checkbox"/>
IP address	218.84.31.168
Subnet mask	255.255.255.192
GateWay	218.84.31.131
MAC	<input checked="" type="checkbox"/> 00-4a-20-a1-00-3b
Data port No.	5000
HTTP port No.	80
DNS address	202.96.134.133

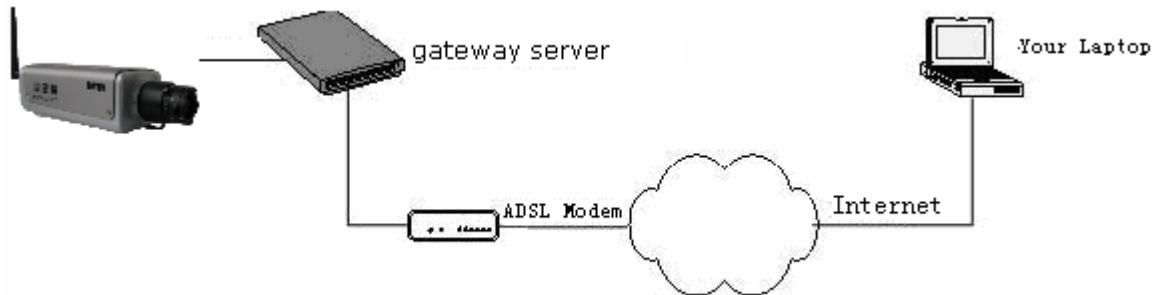
### Step:

One: Login IP camera via IE browser, and change 【network】 setting;

Two: Input the IP address which applies from the network server, for example: 218.84.31.168;  
Three: Input the correct subnet mask, for example: 255.255.255.192;  
Four: Input the correct gateway address, for example: 218.84.31.131;  
After setting, click **【Save】** to restart IP camera.

➤ ADSL and router sharing accesses the internet mode.

The linking drawing as the following:



Input the username and password which applies in the DDNS server on the DDNS setting items, makes the port forwarding on the router. User can visit the camera on WAN via dynamic domain name directly. The network setting please check the following:

Normal	
<b>Basic Parameters</b>	
Enable DHCP	<input type="checkbox"/>
IP address	192.168.55.160
Subnet mask	255.255.255.0
GateWay	192.168.55.1
MAC	<input type="checkbox"/> 00-4a-20-a1-00-3b
Data port No.	5000
HTTP port No.	80
DNS address	202.96.134.133
<b>WiFi Parameters</b>	
Enable WiFi	<input checked="" type="checkbox"/>
IP address	192.168.1.160
Subnet mask	255.255.255.0
GateWay	192.168.1.1
SSID	TP-LINK
Password	
Frequency band	Auto
Mode	Auto
<b>DDNS Parameters</b>	
Enable DDNS	<input checked="" type="checkbox"/> <a href="#">Link to myddns.net</a>
DDNS provider	myddns.net
DDNS regName	IPCam1001
DDNS password	••••••••
DDNS domain	IPCam1001.myddns.net
DDNS server URL	www.myddns.net
DDNS server Port	30000
Data port map No.	5000
HTTP port map No.	80
Example: <a href="http://IPCam1001.myddns.net">http://IPCam1001.myddns.net</a>	
<b>PPPOE Parameters</b>	
Enable PPPOE	<input type="checkbox"/>
PPPOE URL	
PPPOE username	
PPPOE password	
Online time	0minutes

[Save](#)

## Step:

One: login DDNS server (i.e. <http://www.mvddns.net>), Register username and password. (The operation please refer to **Appendix 3**)

Two: Click to open DDNS;

Three: Choose DDNS server, for example: <http://www.mvddns.net>;

Four: Input the Registration name;

Five: Input the Registration password;

Six: Input domain name address which applies to the DDNS server,  
for example: test.mvddns.net;

Seven: Input the DDNS IP address, for example www.mvddns.net;

Eight: Input the DDNS server port, default port: 30000;

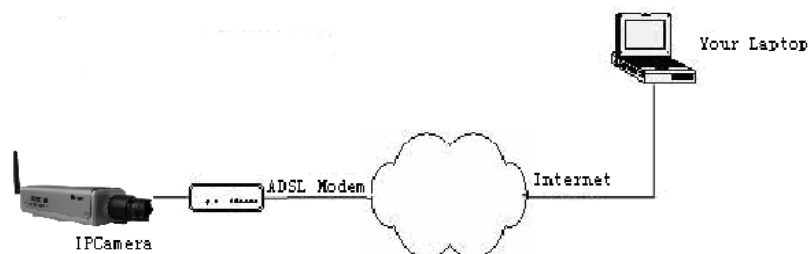
Nine: Input the public data port No. which assign via port forwarding, default port: 5000,

Ten: Input the public WEB port No. which assign via port forwarding, default port: 80

After setting, click [Save] to restart IP camera.

## ➤ ADSL and IP camera's PPPoE accesses the internet mode

The linking drawing as the following:



Input the username and password which applies in the DDNS server on the DDNS setting items, then Input the PPPoE username and password which applies from network provider on the PPPoE setting item.

The network setting please check the following:

Normal	
<b>Basic Parameters</b>	
Enable DHCP	<input type="checkbox"/>
IP address	192.168.55.160
Subnet mask	255.255.255.0
GateWay	192.168.55.1
MAC	<input type="checkbox"/> 00-4a-20-a1-89-3b
Data port No.	5000
HTTP port No.	80
DNS address	202.96.134.133
<b>WiFi Parameters</b>	
Enable WiFi	<input checked="" type="checkbox"/>
IP address	192.168.1.160
Subnet mask	255.255.255.0
<b>DDNS Parameters</b>	
Enable DDNS	<input checked="" type="checkbox"/> <a href="http://www.mvddns.net">Link to mvddns.net</a>
DDNS provider	mvddns.net
DDNS regName	IPCam1001
DDNS password	••••••••
DDNS domain	IPCam1001.mvddns.net
DDNS server URL	www.mvddns.net
DDNS server Port	30000
Data port map No.	5000
HTTP port map No.	80
Example: <a href="http://IPCam1001.mvddns.net">http://IPCam1001.mvddns.net</a>	
<b>PPPOE Parameters</b>	
Enable PPPOE	<input checked="" type="checkbox"/>

---

The DDNS parameter settings are same as above, the PPPoE setting must input the correct PPPoE username and password which applies from the network provider.

## Appendix 4 FAQ

### (1 Forget Password

**Answer:** 【RESET】 on the IP Camera back, press it to retrieve all parameter to default (Factory Setting).The default user name: admin, password: admin

### (2 No image in IE Browser

**Reason:** Uninstall ActiveX.

**Answer:** You need to install ActiveX Control when you visit IP Camera for the first time.

Click “file” to download ocx. A new dialogue box appears, click 【Run】 or 【Save】 to download ActiveX, after download it , double-click the downloaded file “xdview.exe” to install ActiveX and shows “Install OK!”

### (3 Why failed to login IP Camera after upgrade through IE Browser?



---

**Answer:** Delete the cookies of IE. Method: find the tool of browser---Internet options---Internet temporary file---click “delete file” button, choose the option “delete all offline contents”. Confirm and restart to login IP Camera.

#### **(4 Why the image is not fluent?)**

**Reason 1:** The video frame rate is low

**Answer:** Improve the video frame rate

**Reason 2:** Many users view the image

**Answer:** Close some clients or reduce the video frame rate.

**Reason 3:** The bandwidth is too low.

**Answer:** Reduce the video frame rate or video compression bit rate

#### **6, Can't visit IP Camera via IE browser?**

**Reason 1:** Internet offline.

**Answer:** If it is an error of network connection, do the following steps: Connect PC to network to test whether they work normally or not.

**Reason 2:** IP Address was occupied by other device.

**Answer:** Cut off the connection of IP Camera and network, connect IP Camera and PC, and then set IP address again according to recommendatory operation.

**Reason 3:** IP address lies in different subnet?

**Answer:** Check the IP and subnet mask, test the settings of gateway.

**Reason 4:** The physical address of network conflict with IP Camera?

**Answer:** please modify the physical address of IP Camera.

**Reason 5:** The web port is modified by others?

**Answer:** please contact administrators of networks to obtain relevant port information.

**Reason 6:** When the causes can not found.

**Answer:** please reset IP Camera to default state, and connect IP Camera. (System default IP address: 192.168.55.160; mask address: 255.255.255.0).

#### **(7 Speaker without sound**

**Reason 1:** Without connecting Audio input.

**Answer:** Checking the Audio connection.

**Reason 2:** Without choosing the option of Audio in IP Camera.

**Answer:** Checking the Audio parameters of IP Camera, choosing the option of Audio.

#### **(8 The effect of the audio is not good.**

**Reason:** When there are many noises for the Audio and the distortion is very serious, please check the input signal level, if it is not lineate input, the signal level is not matching with the signal level of IP Camera. And it results in the saturation distortion.

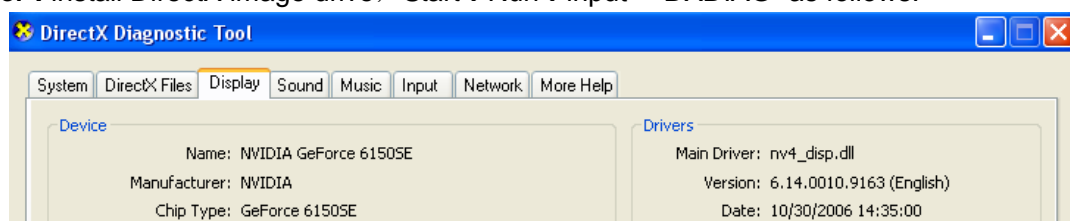
**Answer:** please adopt the proper lineate input accord with the IP Camera

#### **(9 How to deal with the image abnormal?**

**Reason 1:** Computer system problem, DirectX is off; image shows slowly and color is abnormal.

**Reason 2:** Hardware problem, Graphic card can not support it; The image is speed up and hardware Zoom function. (It has to change the Graphic card for hardware problem)

**Answer :** install DirectX image drive, Start→Run→input “DXDIAG” as follows:



---

**Note:** start DirectDraw speedup、Direct3D speedup、AGP veins speedup in DirectX functions。If they can not be started, that means the DirectX installation failure or hardware no display.

**(10 Small image size under the resolution 1600\*1200?)**

Reason: The computer resolution caused

Answer: Change the computer resolution to big one.